

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-4. (canceled)

5. (currently amended) ~~The method of claim 1~~

A method, comprising:

determining that a system is to enter a low-power state;

encrypting system context information; and

saving the encrypted system context information on a non-volatile storage device,

wherein the system context information is associated with at least one of: (i) an operating system image, [and] or (ii) a memory image.

6. (currently amended) ~~The method of claim 1~~

A method, comprising:

determining that a system is to enter a low-power state;

encrypting system context information; and

saving the encrypted system context information on a non-volatile storage device,

wherein the low-power state is associated with an advanced configuration and power interface sleep state.

7. (currently amended) ~~The method of claim 1~~

A method, comprising:

determining that a system is to enter a low-power state;

encrypting system context information; and

saving the encrypted system context information on a non-volatile storage device,

wherein the non-volatile storage device comprises at least one of: (i) a hard disk drive, (ii) a hard disk drive partition, (iii) a flash memory unit, (iv) a random access memory having a battery, [and] or (v) a network device.

8. (currently amended) ~~The method of claim 1~~

A method, comprising:

determining that a system is to enter a low-power state;

encrypting system context information; and

saving the encrypted system context information on a non-volatile storage device,

wherein the system includes a processor and comprises at least one of: (i) a desktop personal computer; (ii) a mobile system, (iii) a workstation, (iv) a server, (v) a set top box, [and] or (vi) a game system.

9. (currently amended) ~~The method of claim 1~~

A method, comprising:

determining that a system is to enter a low-power state;

encrypting system context information; and

saving the encrypted system context information on a non-volatile storage device,
wherein said encrypting is performed in accordance with at least one of: (i) a system identifier,
(ii) a user identifier, (iii) a processor identifier, [and] or (iv) trusted platform module information.

10. (currently amended) The method of claim [1] 9, wherein said encrypting is performed
by at least one of: (i) a software application, (ii) a hardware device, [and] or (iii) a stream
encryption engine.

11. (currently amended) ~~The method of claim 1~~

A method, comprising:

determining that a system is to enter a low-power state;

encrypting system context information; and

saving the encrypted system context information on a non-volatile storage device,
wherein an operating system writes the system context information into a volatile memory device
and said encrypting and saving are arranged by another device that accesses the system context
information from the volatile memory device, wherein the other device is associated with at least
one of: (i) a basic input/output system, [and] or (ii) an encryption engine associated with a
chipset.

12. (original) A method, comprising:

determining that a system has entered an advanced configuration and power interface S3
sleep state; and

arranging for system context information stored in volatile memory to be encrypted and
saved in a non-volatile storage device.

13. (original) The method of claim 12, further comprising:

arranging for the system context information to be compressed before being encrypted.

14. (currently amended) An apparatus, comprising:

a decision unit to determine that a system is to enter a low-power state; and

an encryption engine to encrypt system context information and arrange for the encrypted system context information to be saved on a non-volatile storage device, wherein the system context information is associated with at least one of: (i) an operating system image, or (ii) a memory image.

15. (original) The apparatus of claim 14, further comprising:

a compression engine to compress the system context information before it is encrypted.

16. (currently amended) An apparatus, comprising:

a storage medium having stored thereon instructions that when executed by a machine result in the following:

determining that a system is to enter a low-power state,

encrypting system context information, and

saving the encrypted system context information on a non-volatile storage device, wherein the system context information is associated with at least one of: (i) an operating system image, or (ii) a memory image.

17. (original) The apparatus of claim 16, wherein execution of the instructions further results in:

compressing the system context information before it is encrypted.

18. (currently amended) A method, comprising:

determining that a system is to enter a low-power state;

compressing system context information; and

saving the compressed system context information on storage device, wherein the system context information is associated with at least one of: (i) an operating system image, or (ii) a memory image.

19. (original) The method of claim 18, wherein the compressed system context information is saved to a non-volatile storage device.

20. (original) The method of claim 18, further comprising:

arranging for the system to enter the low-power state after the compressed system context information is saved.

21. (original) The method of claim 18, further comprising:

retrieving the compressed system context information;

uncompressing the compressed system context information; and

arranging for the system to enter a higher-power state in accordance with the system context information.

22. (currently amended) A computer system, comprising:

a hard disk drive; and

an apparatus, including:

a decision unit to determine that a system is to enter a low-power state, and

an encryption engine to encrypt system context information and arrange for the encrypted system context information to be saved on a non-volatile storage device, wherein the system context information is associated with at least one of: (i) an operating system image, or (ii) a memory image.

23. (original) The computer system of claim 22, wherein the apparatus further comprises:

a compression engine to compress the system context information before it is encrypted.